



# EXPERIMENT - 8

## Object Oriented Programming Lab

### Aim

Write a program to find the greatest of two given numbers in two different classes using friend function.

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### Aim:

Write a program to find the greatest of two given numbers in two different classes using friend function.

### Source Code:

```
#include <iostream>
using namespace std;

class ClassB;

class ClassA {
    private:
        int numA;
        friend int greatest(ClassA, ClassB);

    public:
        void input() {
            cout << "Enter number for class A:";
            cin >> numA;
        }
};

class ClassB {
    private:
        int numB;
        friend int greatest(ClassA, ClassB);

    public:
```

```
        void input() {
            cout << "Enter number for class B:";
            cin >> numB;
        }
};

int greatest(ClassA objectA, ClassB objectB) {
    return max(objectA.numA, objectB.numB);
}

int main() {
    ClassA objectA;
    ClassB objectB;
    objectA.input();
    objectB.input();
    cout << "Greatest: " << greatest(objectA, objectB);
    return 0;
}
```

## Output:

```
PS D:\sem 4\cpp\oops> cd "d:\sem 4\cpp\oops\" ; if ($?) { g++ greatest.cpp -o greatest } ; if ($?) { .\greatest }
Enter number for class A: 23
Enter number for class B: 13
Greatest: 23
PS D:\sem 4\cpp\oops> cd "d:\sem 4\cpp\oops\" ; if ($?) { g++ greatest.cpp -o greatest } ; if ($?) { .\greatest }
Enter number for class A: 22
Enter number for class B: 10
Greatest: 22
PS D:\sem 4\cpp\oops> cd "d:\sem 4\cpp\oops\" ; if ($?) { g++ greatest.cpp -o greatest } ; if ($?) { .\greatest }
Enter number for class A: 02
Enter number for class B: 20
Greatest: 20
PS D:\sem 4\cpp\oops> █
```

```
PS D:\sem 4\cpp\oops> cd "d:\sem 4\cpp\oops\" ; if ($?) { g++ greatest.cpp -o greatest } ; if ($?) { .\greatest }
Enter number for class A: 23
Enter number for class B: 13
Greatest: 23
```